Intelligent Speed Breaker System Design for Vehicles using Internet of Things

Code :

```
#define BLYNK_TEMPLATE_ID "TMPL3pKRUEdqV"
#define BLYNK_TEMPLATE_NAME "SMART ROBOT"
#define BLYNK_AUTH_TOKEN "b4QDqT2buT_tFvt0XT7sJdLqW9sXCUJC"



char auth[] = BLYNK_AUTH_TOKEN;
char ssid [] = "SVTECHNOLOGIES";
char pass [] = "Smart.23";

#define BLYNK_PRINT Serial
#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>

#include<LiquidCrystal.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C Lcd(0x27,16,2);
#include <Wire.h>

void setup()
{
  Blynk.begin(auth, ssid, pass);
    Serial.begin(115200);
 pinMode (D3,INPUT);

 pinMode (D5,OUTPUT);    //RELAY MODULE
```

```
  pinMode (D6,OUTPUT);    //BUZZER

  pinMode (D7,OUTPUT);    //BLUE LED

Lcd.begin();
Lcd.setCursor(0,0);
Lcd.print("   WELCOME TO   ");
Lcd.setCursor(0,1);
Lcd.print(" SMART VEHICLE  ");
delay(3000);



digitalWrite(D6,HIGH);
digitalWrite(D7,HIGH);
delay(700);
digitalWrite(D6,LOW);
digitalWrite(D7,LOW);
  delay(700);
  digitalWrite(D6,HIGH);
   digitalWrite(D7,HIGH);
delay(700);
digitalWrite(D6,LOW);
digitalWrite(D7,LOW);
  delay(700);
  digitalWrite(D6,HIGH);
  digitalWrite(D7,HIGH);
delay(700);
digitalWrite(D6,LOW);
digitalWrite(D7,LOW);
  delay(700);
```

```
}
void loop()
{
  Blynk.run();
  int S,V;
 S=digitalRead(D3);
 Blynk.virtualWrite(V3,S);

if(S==1)
{
  digitalWrite(D6,HIGH);
  digitalWrite(D7,HIGH);
   Lcd.setCursor(0,0);
  Lcd.print(" ALERT INFRONT  ");
  Lcd.setCursor(0,1);
  Lcd.print(" SPEED BREAKER  ");
  delay(3000);
  Lcd.setCursor(0,0);
  Lcd.print("A-MODE ACTIVATED");
  Lcd.setCursor(0,1);
  Lcd.print("VEHICLE SLOWDOEN");
  digitalWrite(D5, HIGH);
  digitalWrite(D6,HIGH);
  digitalWrite(D7,HIGH);
  delay(3000);
     }

else
{
  digitalWrite(D5,LOW);
  digitalWrite(D6,LOW);
```

```
  digitalWrite(D7,LOW);
  Lcd.setCursor(0,0);
Lcd.print("   WELCOME TO   ");
Lcd.setCursor(0,1);
Lcd.print(" SMART VEHICLE  ");
delay(3000);
  delay(300);
  }
Lcd.clear();
}
```